

ABSTRACT OF THE DISCLOSURE

An optical network system is provided which has a signal protection function and is able to be constructed of communication nodes manufactured at low costs. An optical signal transceiver has at least one optical signal transmitting device and at least one optical signal receiving device to transmit and receive an optical signal between nodes facing each other. A switching device, when no failure has occurred in the optical signal transmitting communication line and optical signal receiving communication line, transmits an optical signal from the optical signal transmitting device to an optical signal transmitting communication line and an optical signal having been received from the optical signal receiving communication line to an optical signal receiving device. The switching device, when a failure has occurred in the optical signal receiving communication line, does switching so as to be able to receive the optical signal, to be transmitted to the optical signal receiving device, from the optical signal transmitting communication line.